

Peer Review File

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Reviewer Comments

Reviewer A

Dear authors,
Congratulations for this paper, which seems really interesting.
It is well structured and organized.
Moreover, it highlights the importance of hip radiofrequency as a pain therapy.
I suggest just some minor corrections.

It is better to avoid to insert references inside the abstract.

- Thank you for your comment. We deleted the references in the abstract.

Then, you should clearly underline that this review is a descriptive one, since there is no statistical analysis, briefly explaining why this paper is useful.

- Thank you, and we have added a sentence at the end of our introduction (lines 33-36) to detail a hip RFA review paper's importance.

Finally, I suggest also to briefly integrate the paragraph about efficacy making a comparison with RF applied to other anatomical districts and explaining why we can affirm the effectiveness of this therapy despite there is still no solid evidence. To do that, I suggest the following reference:

Fari G, de Sire A, Fallea C, Albano M, Grossi G, Bettoni E, Di Paolo S, Agostini F, Bernetti A, Puntillo F, Mariconda C. Efficacy of Radiofrequency as Therapy and Diagnostic Support in the Management of Musculoskeletal Pain: A Systematic Review and Meta-Analysis. *Diagnostics (Basel)*. 2022 Feb 26;12(3):600. doi: 10.3390/diagnostics12030600. PMID: 35328153; PMCID: PMC8947614.

- Thank you for the helpful paper! We have connected hip RFA efficacy to the systematic review/meta-analysis you included.

Reviewer B

RFA of the hip is not a well-trodden path. A good critical overview will be of assistance to fellow interventionalists.

This is another extensive review on this topic. Some edits and reorganization may be needed.

1. OA seems to be the focus of this review. It will be better to have the paragraphs on OA together. For example, the paragraph (95-101) may follow the paragraph (70-74).

- Thank you, and yes OA is the focus of this paper given it is the largest source of data for hip pathology. We included a disclaimer about OA being the focus of the paper in Line 16-17 early in the introduction. We adjusted the "pathophysiology

and clinical presentation” section to include all parts of OA together (lines 38-53), and to reiterate our disclaimer about OA.

2. Please focus on RFA. Conservative treatments and the role of surgery should be brief. It may be briefly mentioned in the indications for hip RFA, such as what conservative treatments you will recommend before the RFA. Surgery is always the last resort. However, you may list some situations that surgery has its priority.

- Thank you for your suggestion! In addition to this framing sentence, we have trimmed both the conservative management and surgery sections.

3. Line 58 mentioned chapter. Is this a book chapter or journal article?

- Thank you for catching it! You are correct, it is a review article. We have changed the wording.

4. For reference, better site the original article, instead of the review article.

- Thank you for your comment, and We agree. We believe you are referring to one of the paragraphs in the efficacy section (lines 235 - 242), and we have adjusted the references and wording to reflect the studies Bhatia et al used instead of his review. If you were referring to another part of the paper, please let us know.